MONTANA
STATE
LIBRARY

This "cover" page added by the Internet Archive for formatting purposes

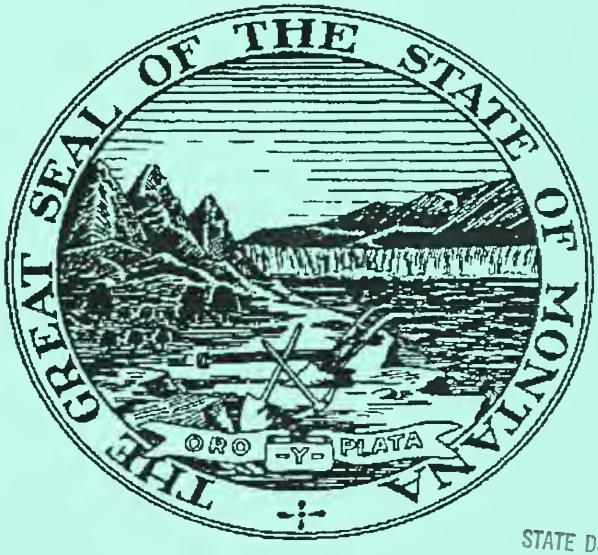
S
631.81
A7MCFF
2003

Montana State Library
3 0864 1003 3972 3

# 2003

# Montana Commercial

# Feed / Fertilizer Report




STATE DOCUMENTS COLLECTION
MAY 06 2005
MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

Ralph Peck, Director
Gregory Ames, Administrator

Volume 50, 2003

# License & Registration Totals

## Feed Program

| | Issued as of: | | | | |
|---|---|---|---|---|---|
| | 8/00 | 7/01 | 7/02 | 8/03 | 7/04 |
| Feed Licenses | 667 | 656 | 625 | 621 | 629 |
| Companies w/ Registrations | 137 | 123 | 135 | 149 | 145 |
| Pet Food Registrations | 3100 | 2700 | 2989 | 3512 | 3382 |

## Fertilizer Program

| | Issued as of: | | | | |
|---|---|---|---|---|---|
| | 8/00 | 7/01 | 7/02 | 7/03 | 8/04 |
| Fertilizer Licenses | 251 | 234 | 230 | 232 | 249 |
| Fertilizer Registrations - | | | | | |
| Companies | 197 | 172 | 147 | 182 | 190 |
| Specialty Products | 845 | 738 | 1123 | 1155 | 1417 |
| Commercial Fertilizers | 392 | 384 | 357 | 359 | 357 |
| Soil Amendments | 132 | 88 | 173 | 157 | 202 |

# Feed Sample and Analyte History

| Year | Samples Taken | Out of Tolerance | % Out of Tolerance |
|---|---|---|---|
| 1983 | 354 | 72 | 20.3 |
| 1984 | 266 | 64 | 24.1 |
| 1985 | 406 | 106 | 26.1 |
| 1986 | 290 | 50 | 17.2 |
| 1987 | 265 | 60 | 22.6 |
| 1988 | 280 | 57 | 20.4 |
| 1989 | 293 | 50 | 17.1 |
| 1990 | 310 | 54 | 17.4 |
| 1991 | 241 | 43 | 17.8 |
| 1992 | 335 | 76 | 22.7 |
| 1993 | 272 | 71 | 26.1 |
| 1994 | 312 | 89 | 28.5 |
| 1995 | 237 | 38 | 16.0 |
| 1996 | 235 | 77 | 32.8 |
| 1997 | 264 | 99 | 37.5 |
| 1998 | 296 | 125 | 42.2 |
| 1999 | 286 | 88 | 30.8 |
| 2000 | 266 | 71 | 26.7 |
| 2001 | 289 | 90 | 31.1 |
| 2002 | 258 | 87 | 33.7 |
| 2003 | 257 | 38* | 14.8 |

* number of samples that exceeded the Action Level for at least one analyte

# 2003 Feed Analyte Breakdown

| Nutrient | Number of Analyses | Out of Tolerance | % Out of Tolerance |
|---|---|---|---|
| Protein | 226 | 33 | 14.6 |
| NPN | 10 | 0 | 0 |
| Fiber | 1 | 0 | 0 |
| Fat | 10 | 0 | 0 |
| Moisture | 42 | 0 | 0 |
| Calcium | 176 | 29 | 16.5 |
| Phosphorus | 170 | 10 | 5.9 |
| Salt | 69 | 19 | 27.5 |
| Vitamin A | 102 | 12 | 11.8 |
| Magnesium | 33 | 4 | 12.1 |
| Potassium | 42 | 3 | 7.1 |
| Zinc | 59 | 3 | 5.1 |
| Iron | 3 | 1 | 33.3 |
| Selenium | 52 | 4 | 7.7 |
| Copper | 71 | 6 | 8.5 |
| Manganese | 12 | 2 | 16.7 |
| Sodium | 14 | 3 | 21.4 |
| Lysine | 33 | 1 | 3 |
| Methionine | 15 | 1 | 6.7 |
| Amprolium | 3 | 0 | 0 |
| Chlortetracycline | 13 | 0 | 0 |
| Lasalocid | 13 | 1 | 7.7 |
| Oxtetracycline | 3 | 0 | 0 |
| Monensin | 16 | 1 | 6.3 |
| Sulfamethazine | 5 | 0 | 0 |
| | | | |
| Total | 1193 | 133 | 11.1 |

# MONTANA COMMERCIAL FEED REPORTED
# 2003

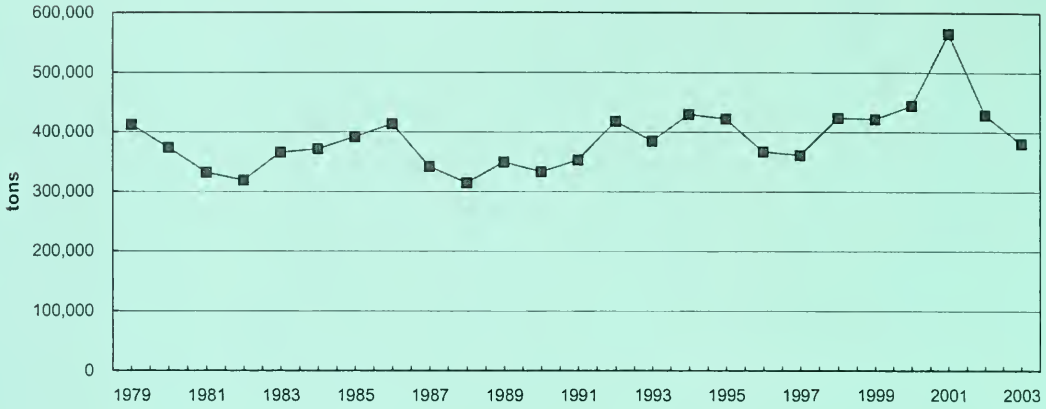
| Formula Feeds | | Tons |
|---|---|---|
| Broiler Feeds | Complete | 237 |
| | Supplement | 45 |
| Turkey Feeds | Complete | 1,256 |
| | Supplement | 1,297 |
| Starter / Grower | Complete | 650 |
| | Supplement | 155 |
| Layer / Breeder | Complete | 1,890 |
| | Supplement | 856 |
| Beef Feeds | Complete | 93,940 |
| | Supplement | 92,022 |
| Dairy Feeds | Complete | 9,100 |
| | Supplement | 9,376 |
| Swine Feeds | Complete | 4,167 |
| | Supplement | 3,303 |
| Sheep Feeds | Complete | 1,224 |
| | Supplement | 2,688 |
| Horse Feeds | Complete | 5,816 |
| | Supplement | 1,128 |
| Mineral Feeds | | 11,586 |
| Rabbit Feeds | | 431 |
| Mineralized Salt | | 2,201 |
| Miscellaneous | | 23,399 |
| | | |
| | | |
| | | |
| **Formula Feeds Total** | | **266,767** |

| Feed Ingredients | Tons |
|---|---|
| Alfalfa Products | 4,264 |
| Animal Products | 0 |
| Barley Products | 13,876 |
| Beet Products | 231 |
| Brewer Products | 1,119 |
| Canola Products | 1,928 |
| Cottonseed Products | 49 |
| Drug Products | 177 |
| Fats & Oils | 102 |
| Linseed Products | 63 |
| Maize Products | 32,174 |
| Marine Products | 93 |
| Meat Products | 119 |
| Milk Products | 89 |
| Mineral Products | 17,208 |
| Molasses | 745 |
| Oat Products | 862 |
| Probiotic/Yeast | 128 |
| Safflower Products | 6,011 |
| Soybean Products | 6,056 |
| Sunflower Products | 1,651 |
| Urea | 247 |
| Vitamin Products | 464 |
| Wheat Products | 12,117 |
| Misc. Ingredients | 14,033 |
| **Feed Ingredients Total** | **113,806** |

**Total Commercial Feed: 380,573 tons**

FDTNBK2003

# Feed Tonnage History




| Year | Tonnage |
|---|---|
| 1979 | 412,113 |
| 1980 | 373,463 |
| 1981 | 331,625 |
| 1982 | 318,312 |
| 1983 | 365,620 |
| 1984 | 371,317 |
| 1985 | 391,558 |
| 1986 | 413,452 |
| 1987 | 341,579 |
| 1988 | 314,336 |
| 1989 | 349,280 |
| 1990 | 332,997 |
| 1991 | 352,762 |
| 1992 | 418,090 |
| 1993 | 384,607 |
| 1994 | 429,600 |
| 1995 | 421,846 |
| 1996 | 366,756 |
| 1997 | 360,971 |
| 1998 | 423,573 |
| 1999 | 421,607 |
| 2000 | 444,344 |
| 2001 | 565,070 |
| 2002 | 428,639 |
| 2003 | 380,573 |

FDHTON

## Fertilizer Sample and Analyte History

| Year | Number of Samples Taken | Number of Samples Deficient | Percent Samples Deficient |
|---|---|---|---|
| 1981 | 428 | 24 | 5.6 |
| 1982 | 607 | 41 | 6.8 |
| 1983 | 558 | 50 | 9.0 |
| 1984 | 379 | 58 | 15.3 |
| 1985 | 368 | 55 | 14.9 |
| 1986 | 228 | 43 | 18.9 |
| 1987 | 175 | 25 | 14.3 |
| 1988 | 228 | 18 | 7.9 |
| 1989 | 128 | 17 | 13.3 |
| 1990 | 154 | 31 | 20.1 |
| 1991 | 142 | 18 | 12.7 |
| 1992 | 107 | 21 | 19.6 |
| 1993 | 89 | 18 | 20.2 |
| 1994 | 172 | 21 | 12.2 |
| 1995 | 216 | 31 | 14.4 |
| 1996 | 208 | 23 | 11.1 |
| 1997 | 124 | 18 | 14.5 |
| 1998 | 172 | 27 | 15.7 |
| 1999 | 215 | 31 | 14.4 |
| 2000 | 215 | 37 | 17.2 |
| 2001 | 222 | 26 | 11.7 |
| 2002 | 220 | 26 | 11.8 |
| 2003 | 218 | 27 | 12.4 |

## 2003 Fertilizer Analyte Breakdown

| Nutrient | Number Analyzed | Number Deficient | Percent Deficient |
|---|---|---|---|
| Nitrogen | 187 | 6 | 3.2 |
| Phosphate | 133 | 15 | 11.3 |
| Potash | 86 | 7 | 8.1 |
| Sulfur | 38 | 1 | 2.6 |
| Iron | 12 | 0 | 0 |
| Zinc | 12 | 0 | 0 |
| Copper | 13 | 2 | 15.4 |
| Magnesium | 5 | 0 | 0 |
| Manganese | 11 | 0 | 0 |
| | | | |
| Total | 497 | 31 | 6.2 |

MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
Reported by Montana Agricultural Statistic Districts

JANUARY - JUNE 2003

| FERTILIZER | NORTH WEST | SOUTH WEST | NORTH CENTRAL | CENTRAL | SOUTH CENTRAL | NORTH EAST | SOUTH EAST | TOTAL |
|---|---|---|---|---|---|---|---|---|
| Anhydrous Ammonia | 0 | 28 | 3223 | 1148 | 1299 | 7019 | 414 | 13,131 |
| Ammonium Nitrate | 1227 | 5600 | 5838 | 1413 | 4474 | 0 | 0 | 18,552 |
| Ammonium Sulfate | 1533 | 2137 | 4364 | 2584 | 1611 | 3866 | 377 | 16,472 |
| Urea | 2285 | 4211 | 56027 | 17246 | 7053 | 29432 | 2970 | 119,224 |
| Ammonium Thiosulfate | 0 | 121 | 316 | 6 | 31 | 2957 | 0 | 3,431 |
| Nitrogen Sols. 32% | 99 | 562 | 224 | 444 | 376 | 0 | 0 | 1,705 |
| Nitrogen Sols. 28% | 0 | 297 | 3072 | 92 | 192 | 2995 | 0 | 6,648 |
| Phosphorus Material | 0 | 0 | 1672 | 156 | 33 | 668 | 0 | 2,529 |
| Potash Material | 1777 | 1645 | 10428 | 3301 | 1751 | 2291 | 617 | 21,810 |
| Sulfur | 64 | 209 | 483 | 548 | 866 | 9 | 2 | 2,181 |
| DAP | 837 | 1110 | 1208 | 1340 | 797 | 5459 | 1167 | 11,918 |
| MAP | 1454 | 5226 | 32434 | 8423 | 4459 | 20007 | 3352 | 75,355 |
| APS | 1457 | 3384 | 2970 | 1318 | 352 | 419 | 49 | 9,949 |
| 10-34-0 | 0 | 38 | 558 | 105 | 52 | 85 | 3 | 841 |
| OTHER BLENDS | 100 | 10155 | 8005 | 5778 | 55 | 50 | 1020 | 25,163 |
| MICRONUTRIENTS | 38 | 45 | 2 | 65 | 100 | 34 | 23 | 307 |
| GYPSUM/LIME | 335 | 2 | 0 | 0 | 4 | 7 | 22 | 370 |
| COMPOST | 4159 | 4156 | 0 | 0 | 0 | 0 | 0 | 8,315 |
| | | | | | | | | |
| TOTALS | 15,365 | 38,926 | 130,824 | 43,967 | 23,505 | 75,298 | 10,016 | 337,901 |

JULY - DECEMBER 2003

| FERTILIZER | NORTH WEST | SOUTH WEST | NORTH CENTRAL | CENTRAL | SOUTH CENTRAL | NORTH EAST | SOUTH EAST | TOTAL |
|---|---|---|---|---|---|---|---|---|
| Anhydrous Ammonia | 0 | 15 | 1267 | 645 | 10 | 1164 | 370 | 3,471 |
| Ammonium Nitrate | 58 | 1883 | 2114 | 1147 | 1080 | 0 | 0 | 6,282 |
| Ammonium Sulfate | 240 | 449 | 743 | 1573 | 753 | 526 | 73 | 4,357 |
| Urea | 400 | 453 | 24556 | 12030 | 6581 | 23203 | 2591 | 69,814 |
| Ammonium Thiosulfate | 0 | 36 | 35 | 20 | 0 | 565 | 0 | 656 |
| Nitrogen Sols. 32% | 232 | 244 | 222 | 33 | 275 | 0 | 0 | 1,006 |
| Nitrogen Sols. 28% | 0 | 58 | 523 | 81 | 165 | 2772 | 0 | 3,599 |
| Phosphorus Material | 5 | 8 | 11 | 120 | 0 | 0 | 0 | 144 |
| Potash Material | 290 | 489 | 3669 | 2148 | 993 | 937 | 332 | 8,858 |
| Sulfur | 5 | 43 | 180 | 83 | 128 | 35 | 8 | 482 |
| DAP | 124 | 205 | 484 | 961 | 972 | 806 | 945 | 4,497 |
| MAP | 210 | 1160 | 20702 | 9257 | 2859 | 4970 | 1560 | 40,718 |
| APS | 130 | 1179 | 952 | 592 | 78 | 47 | 128 | 3,106 |
| 10-34-0 | 0 | 52 | 270 | 117 | 15 | 695 | 0 | 1,149 |
| OTHER BLENDS | 52 | 92 | 137 | 135 | 50 | 91 | 143 | 700 |
| MICRONUTRIENTS | 12 | 38 | 523 | 35 | 38 | 1 | 9 | 656 |
| GYPSUM/LIME | 80 | 1 | 0 | 0 | 0 | 2 | 8 | 91 |
| COMPOST | 5908 | 7546 | 0 | 0 | 0 | 0 | 0 | 13,454 |
| | | | | | | | | |
| TOTALS | 7,746 | 13,951 | 56,388 | 28,977 | 13,997 | 35,814 | 6,167 | 163,040 |

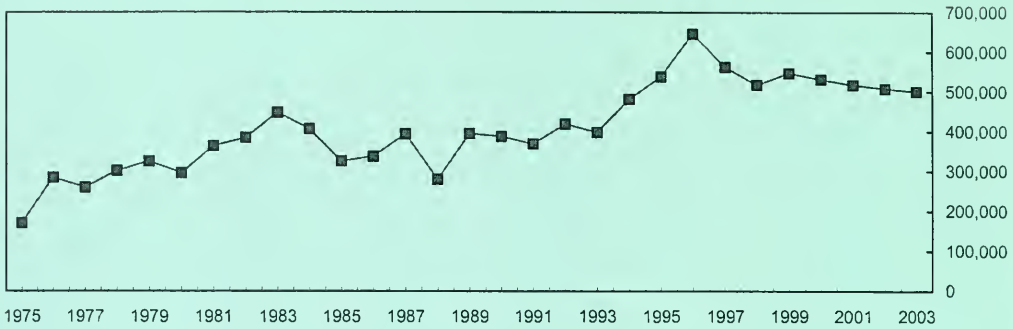
MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
FOR THE YEAR 2003

| FERTILIZER | JAN.-JUN. 2003 | JULY-DEC. 2003 | YEARLY TOTALS |
|---|---|---|---|
| Anhydrous Ammonia | 13,131 | 3,471 | 16,602 |
| Ammonium Nitrate | 18,552 | 6,282 | 24,834 |
| Ammonium Sulfate | 16,472 | 4,357 | 20,829 |
| Urea | 119,224 | 69,814 | 189,038 |
| Ammonium Thiosulfate | 3,431 | 656 | 4,087 |
| Nitrogen Sols. 32% | 1,705 | 1,006 | 2,711 |
| Nitrogen Sols. 28% | 6,648 | 3,599 | 10,247 |
| Phosphorus Material | 2,529 | 144 | 2,673 |
| Potash Material | 21,810 | 8,858 | 30,668 |
| Sulfur | 2,181 | 482 | 2,663 |
| DAP | 11,918 | 4,497 | 16,415 |
| MAP | 75,355 | 40,718 | 116,073 |
| APS | 9,949 | 3,106 | 13,055 |
| 10-34-0 | 841 | 1,149 | 1,990 |
| OTHER BLENDS | 25,163 | 700 | 25,863 |
| MICRONUTRIENTS | 307 | 656 | 963 |
| GYPSUM/LIME | 370 | 91 | 461 |
| COMPOST | 8,315 | 13,454 | 21,769 |
| | | | |
| TOTALS | 337,901 | 163,040 | 500,941 |

FRTNPK03

| | | | |
|---|---|---|---|
| TOTAL NITROGEN | 95,339 | 45,460 | 140,799 |
| TOTAL P205 | 55,655 | 24,530 | 80,185 |
| TOTAL K2O | 13,086 | 5,315 | 18,401 |

# Fertilizer Tonnage History




| Year | Tonnage |
|---|---|
| 1975 | 170,324 |
| 1976 | 283,925 |
| 1977 | 259,211 |
| 1978 | 301,487 |
| 1979 | 324,838 |
| 1980 | 295,958 |
| 1981 | 363,295 |
| 1982 | 384,387 |
| 1983 | 447,407 |
| 1984 | 406,567 |
| 1985 | 325,887 |
| 1986 | 337,626 |
| 1987 | 393,505 |
| 1988 | 279,616 |
| 1989 | 395,033 |
| 1990 | 387,583 |
| 1991 | 368,868 |
| 1992 | 418,982 |
| 1993 | 397,957 |
| 1994 | 481,300 |
| 1995 | 538,356 |
| 1996 | 645,344 |
| 1997 | 562,292 |
| 1998 | 517,388 |
| 1999 | 546,943 |
| 2000 | 531,414 |
| 2001 | 516,873 |
| 2002 | 508,028 |
| 2003 | 500,941 |

FRTHTON

# IMPORTANT NOTICE

Would you like to be on the mailing list to receive an annual copy of the Montana Commercial Feed/Fertilizer Report?

If so, please use this page, complete the information requested and return by mail or fax.

MONTANA DEPARTMENT OF AGRICULTURE
Agricultural Sciences Division
PO Box 200201
Helena MT 59620-0201
Phone: (406) 444-3730 Fax: (406) 444-7336

## ANNUAL MONTANA COMMERCIAL FEED/FERTILIZER REPORT

Yes, I would like to be on your annual Montana Commercial Feed/Fertilizer Report mailing list. I would like _____ copy(ies). Please mail to:

Attention:_____

Business Name:_____

Mailing Address:_____

_____

City/State/Zip:_____